

TRAILS PROGRAM CONSTRUCTION GUIDELINES

MULTI- USE NON- PAVED TRAILS

Cross-section

1. Full bench construction (No fill to be used for the trail tread.)
2. Minimum tread width – 3 ft. to 4 ft.(The length of a pulaski.)
3. Trail Tread Outslope - 2% to 5%.
4. Travelway clearance - horizontal – 8 ft.,vertical – 10 ft.

Grade

1. Sustained grade - 8% or less.
2. Maximum grade - 10% for less than 100 ft. (Only in rare and unusual circumstances should new trail be constructed in excess of 10% grade)

Water management

1. Terrain features, rolling grade, reinforced grade dips and knicks should be built into new trails instead of structures such as waterbars, for directing water off of the trail.
2. Do not install drain dips in an existing trail when grades exceed 10%.
3. Waterbars should be constructed of rock or pressure treated 4 in. to 6 in. diameter logs or timber, positioned at 45 to 60 degree angle to the trail. Water should run off before hitting the waterbar. The water run out area outlet should be at least two to three shovel blades wide (2 ft. to 3 ft.). Waterbars should rise no more than 1in. to 3 ft. above the level of the trail tread.

Switchbacks

1. Turning platform (Crowned Landing) - Minimum radius 12 ft., 5% sloped in all directions.
2. Trail tread should be insloped approaching the landing on the uphill side.
3. Water drains out the back of the landing on the uphill side of the switchback.
4. Trail tread should be outsloped following the landing on the downhill side.

MULTI- USE PAVED TRAILS

Tread Width Minimum width 10 feet (Only in unusual circumstances should 8 feet width be considered).

Bridge width Should be the same as the trail tread width.

Trail Tread Sloped 2% to the down hill side of the trail

Sub-base (These are general specifications. Final specifications should be based on soil tests.)

1. 6 in. untreated base course, $\frac{3}{4}$ in. minus, Compacted to 95%.
2. (Washington County) - No less than 4in. untreated base course $\frac{1}{2}$ in. or $\frac{3}{4}$ in. minus.

Asphalt

1. APWA AC-20-DM-1/2 bituminous surface course
2. Thickness - 2 ½ in. to 3 in., 3 in. recommended

Weed Barrier

1. Weed barrier geotextile APWA 02075

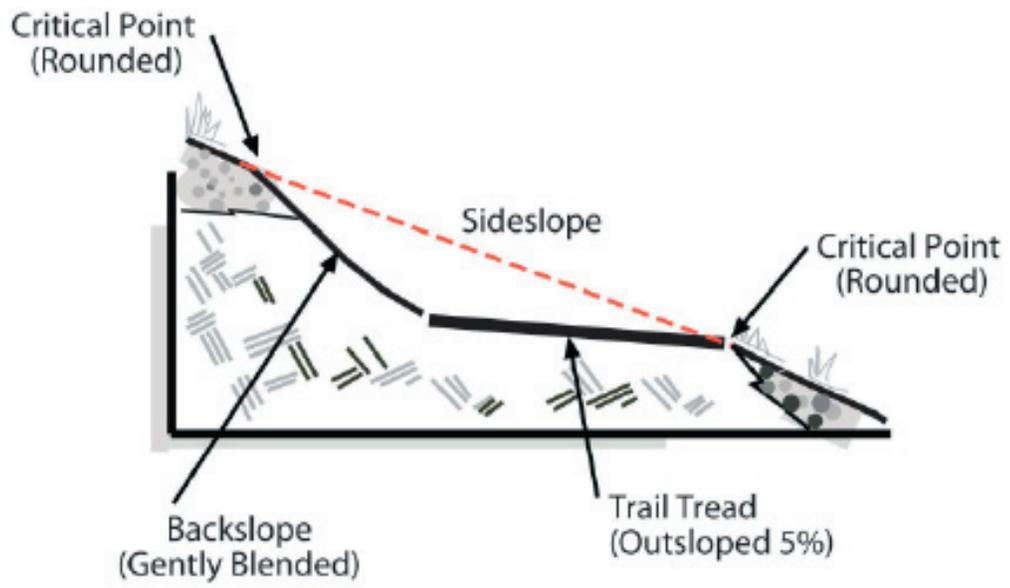
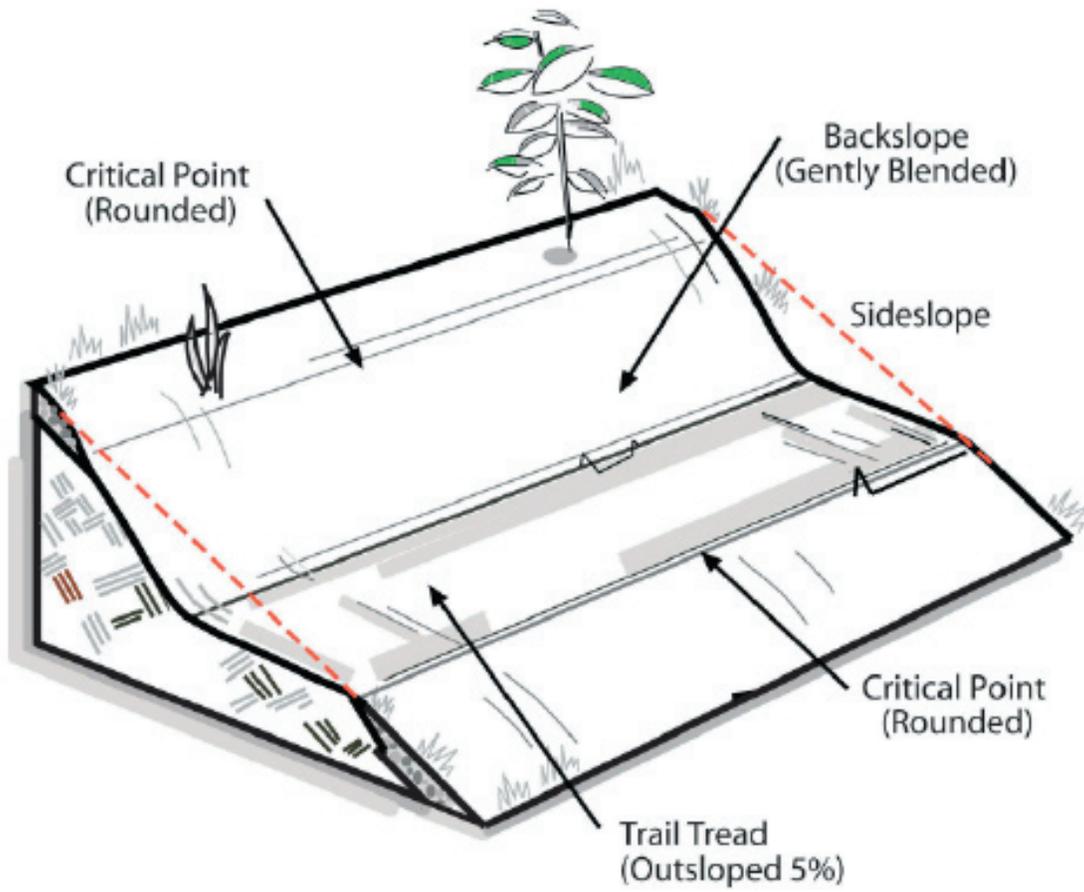
TRAIL HEADS_

1. Sub-base – 8 in. untreated base course, ¾ in. minus, compacted to 95%.
2. Asphalt - thickness – 3 in.
3. Dimensions (if there is equestrian use) - suggested minimum 100 ft. X 130 ft.

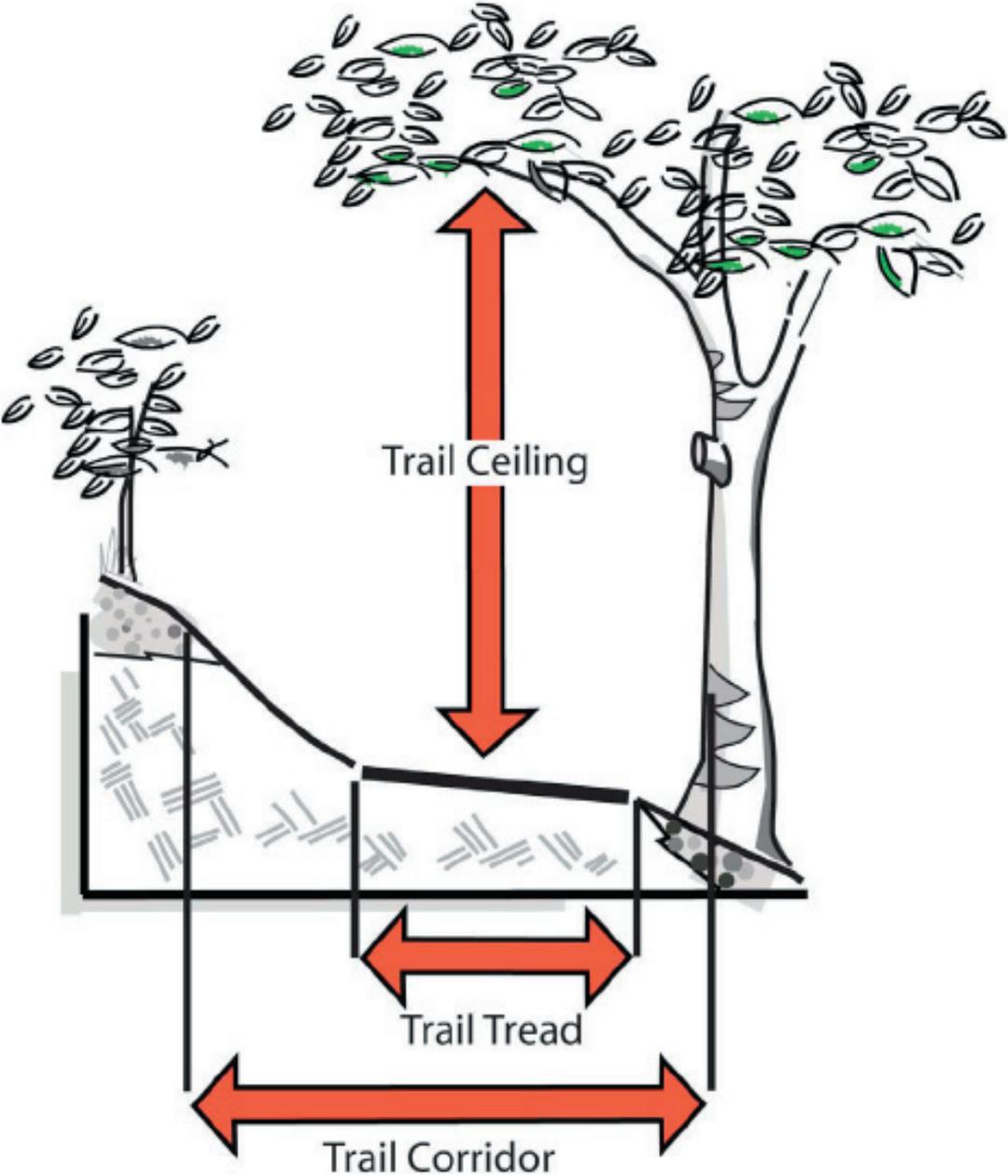
The following trail feature images courtesy of the International Mountain Bicycling Association, taken from their publication

Trail Solutions.

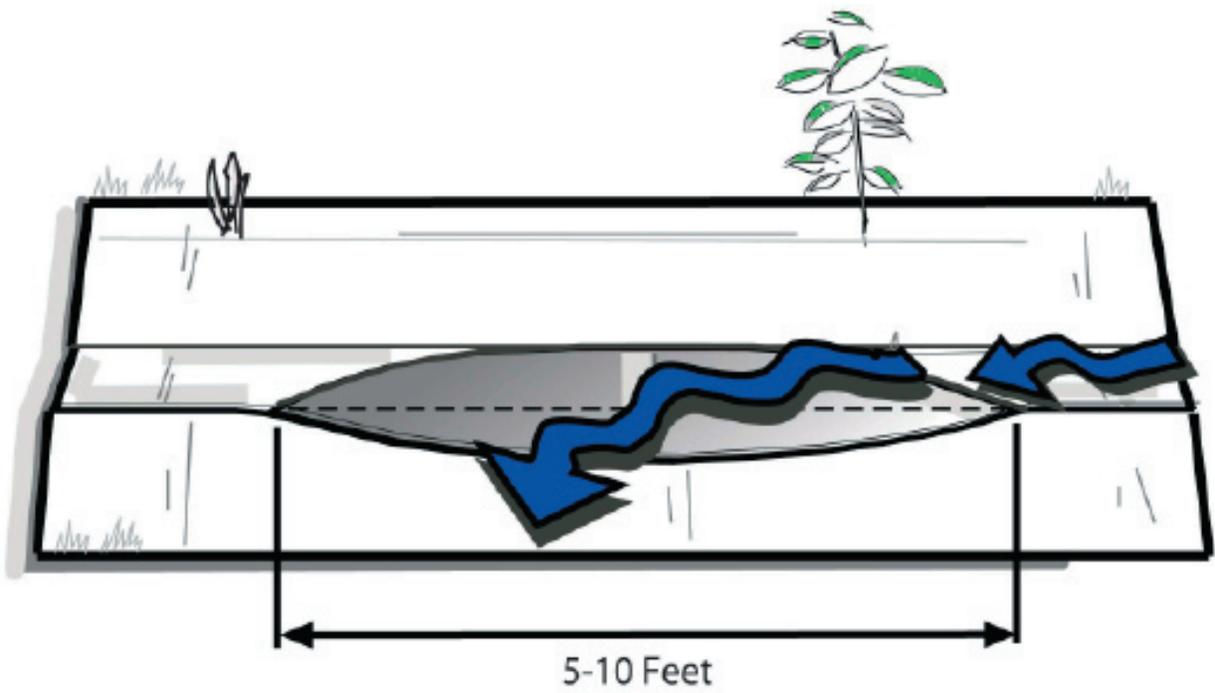
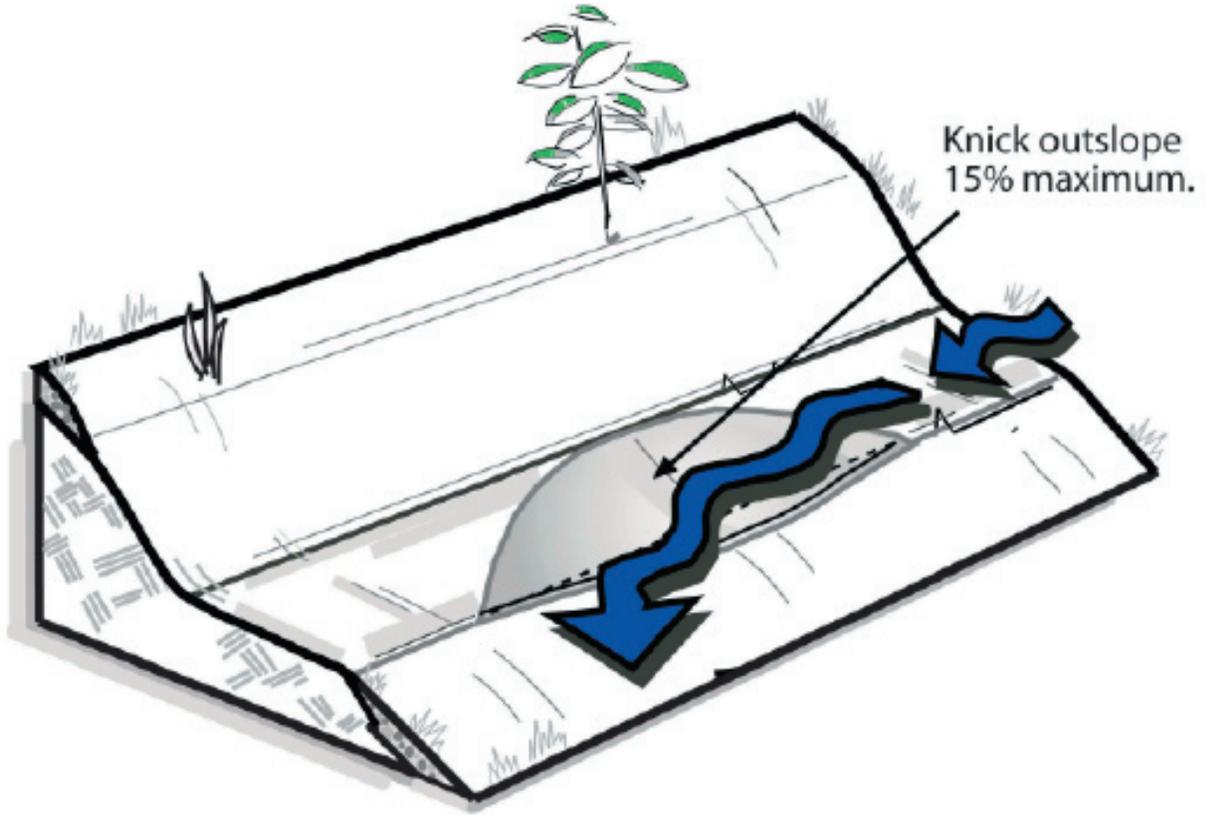
Full Bench Trail



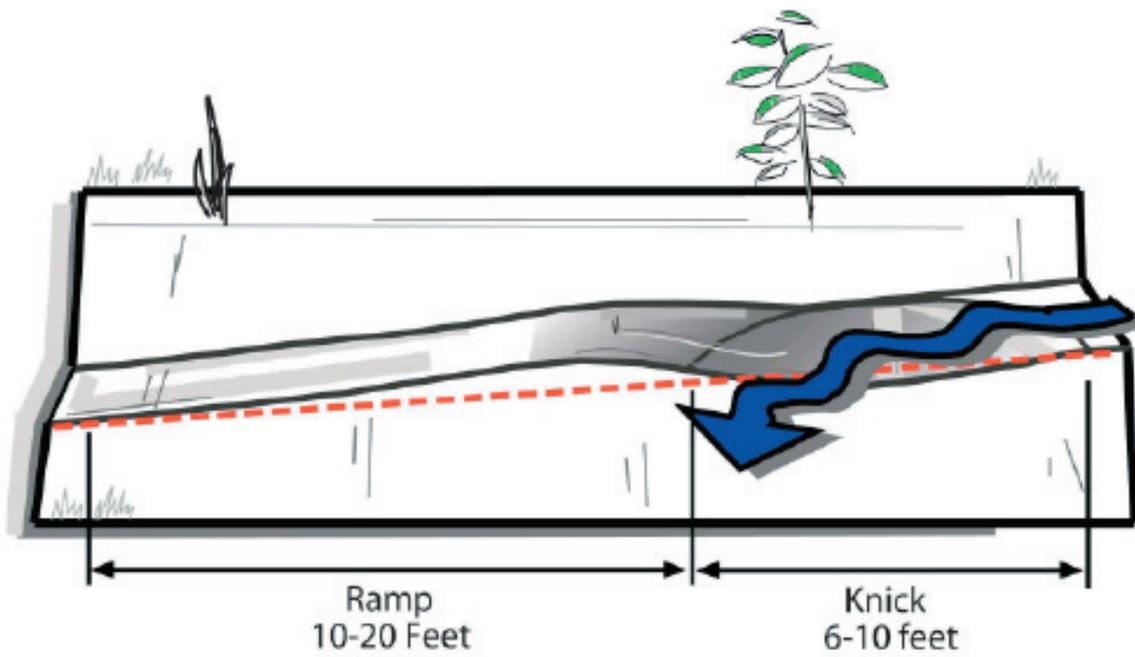
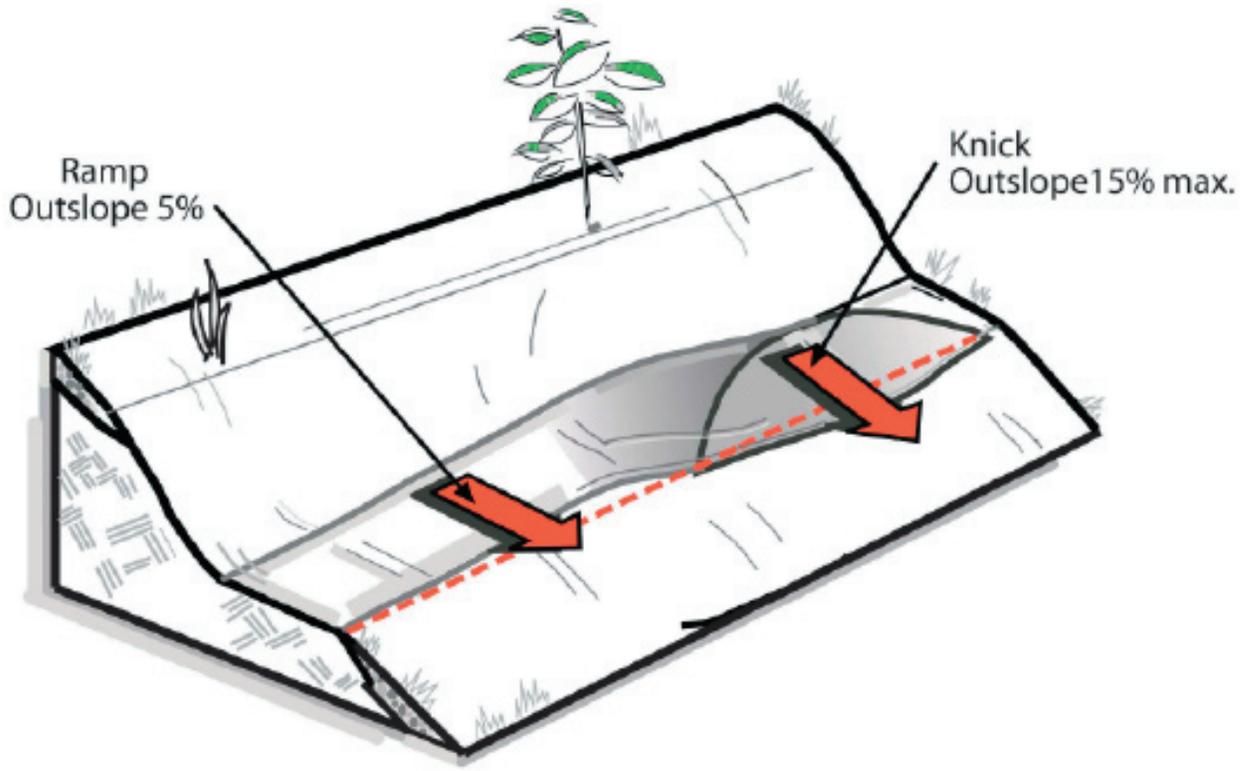
Trail Corridor



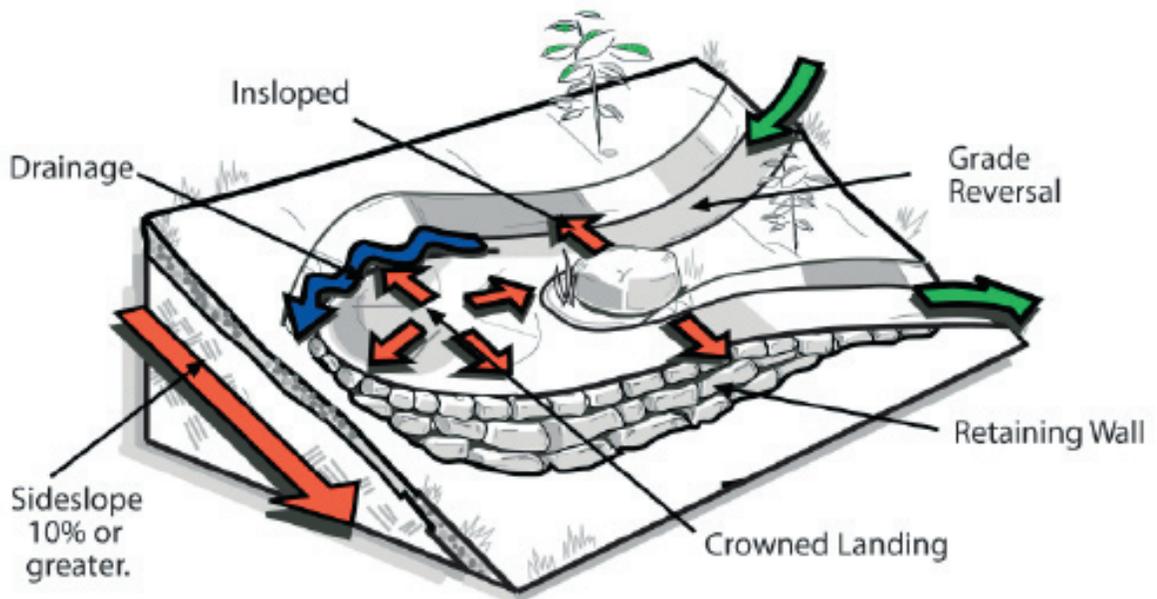
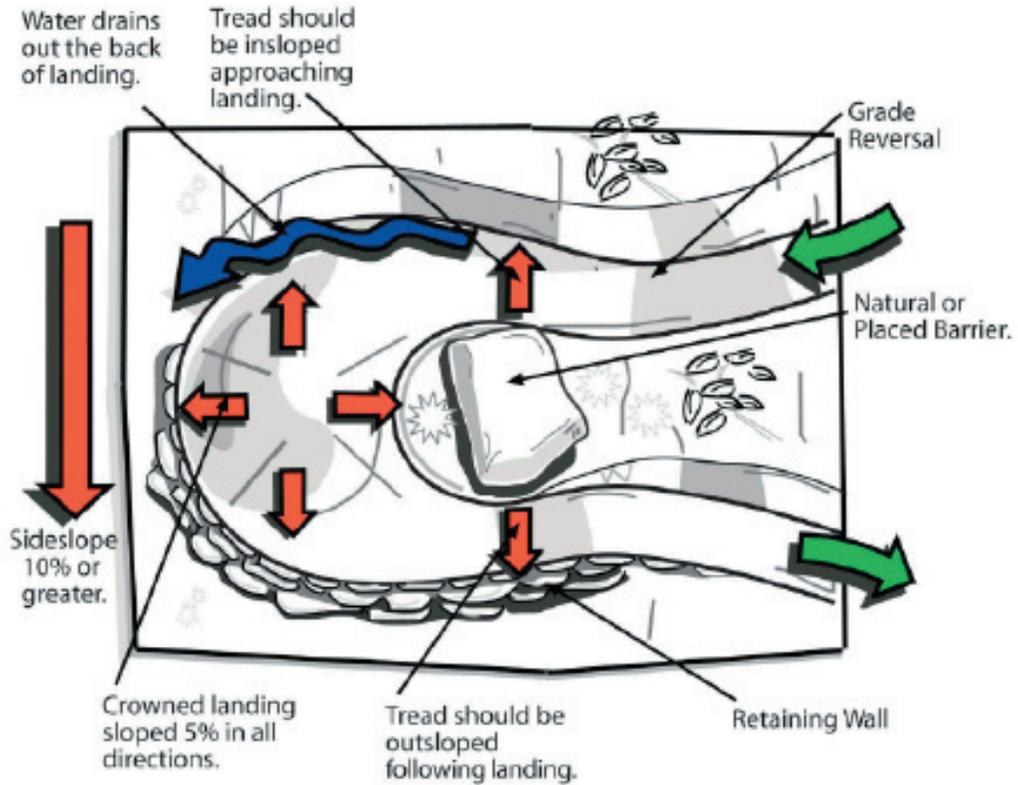
Knick



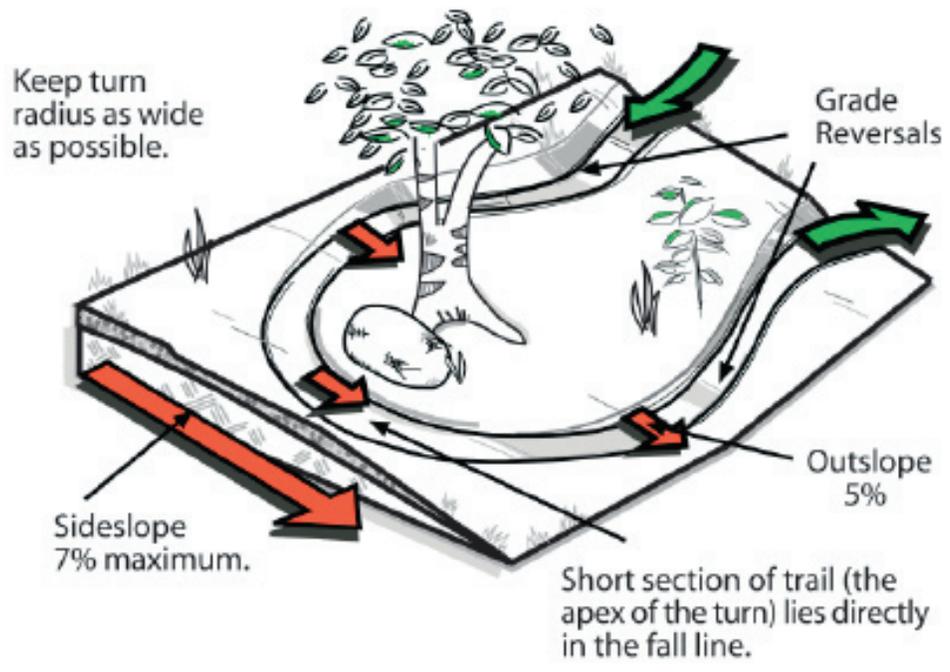
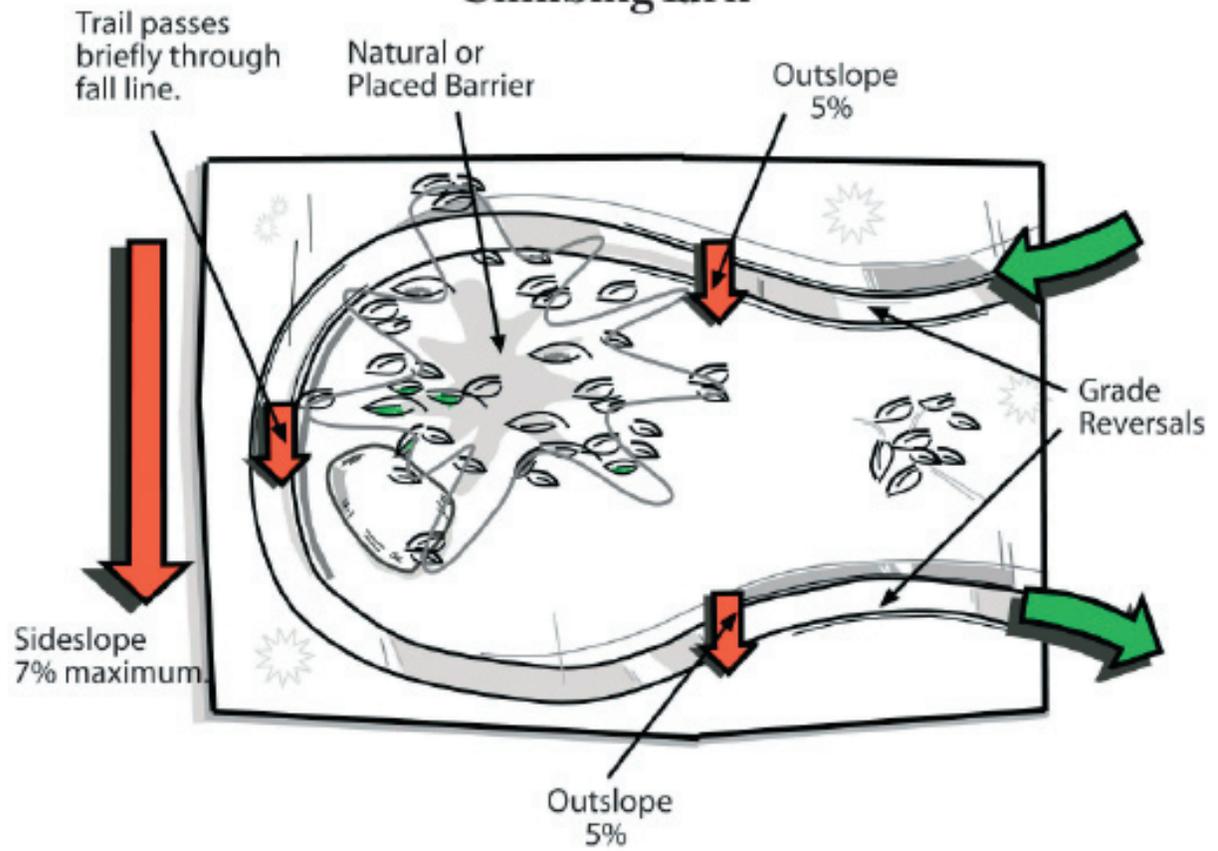
Rolling Grade Dip



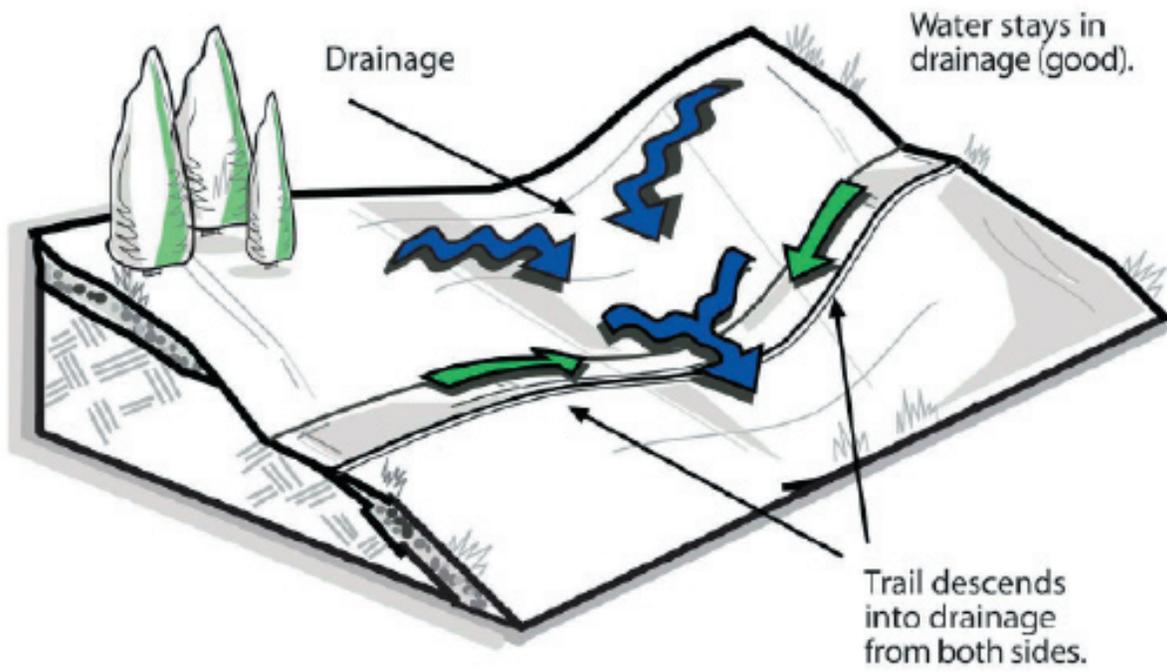
Rolling Crown Switchback



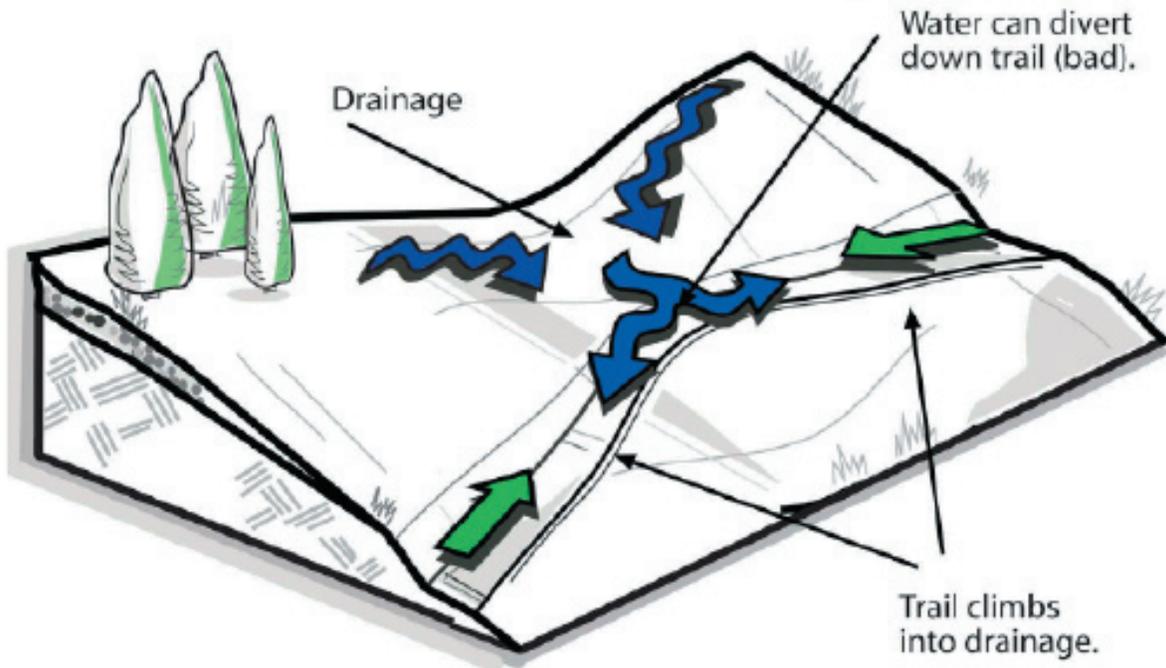
Climbing Turn



Proper Drainage Crossing



Improper Drainage Crossing



Chokes and Corralling

